

44-11-1

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Those eligible  
to read the  
attached

## PRODUCT CONTAMINATION OF THE AIR

October 25 -28, 1944

G. Koval

17 K. Z. Morgan

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Before reading the document, sign the date below.

1907 J. A. E. Bell

~~26-8~~

~~2.  $\Delta$ -loop -  $\text{f}(\text{loop}) = \text{loop}$~~

Central File

E-C Bell 11-6-44  
E. Stone 11-7-44  
Ans Dossenby 11/7/44  
B Cuyler 11/19/44

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A.E.C. - 3-2-5-L.....

This document has been approved for release  
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David R. Harrin 4/21/95  
Technical Information Officer Date  
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E. Z. KREMER

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**PRODUCT CONTAMINATION OF THE AIR**  
October 23 - 28, 1944.

Health-Physics

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Health-Physics

1. K. Z. Morgan
  2. J. E. Wirth
  3. R. C. Stone
  4. W. A. Rodger
  5. R. H. Firminius
  6. I. Perlman
  7. E. C. Bell
  8. R. F. Richards
  9. G. Koval
  10. Central File
  11. Records File

Dust samples were collected in flages. 706A and 203 by electrostatic precipitation. The rate of air flow through the precipitron was 11.5 CFM. Precipitation lasted 30 minutes. Samples were counted on alpha counter #7-712. Results were corrected for radium and thorium active deposit counts.

All concentrations of product found in the air were below the tolerance level of  $5 \times 10^{-10} \mu$  gms per cc of air.

The results of all surveys are listed in the following table.

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ex/w

Location	Time of survey	c/m due to product	# Curies per cc of air	% sum of product per cc of air
<u>BLPC 706A</u>				
Rm. 34 - SW hood over sink	10/24/44 10:30 AM	0	0	0
	10/27/44 1:55 PM	0	0	0
Rm. 34 - W hood	10/24/44 12:30 PM	6	$8.8 \times 10^{-13}$	$1.4 \times 10^{-11}$
SW hood	10/25/44 12:30 PM	1	$1.5 \times 10^{-13}$	$2.3 \times 10^{-12}$
W hood	10/25/44 1:15 PM	0	0	0
W hood	10/26/44 1:55 PM	14	$2.0 \times 10^{-12}$	$3.1 \times 10^{-11}$
SW hood	10/26/44 2:25 PM	5	$7.5 \times 10^{-13}$	$9.1 \times 10^{-12}$
W hood	10/27/44 1:25 PM	0	0	0
W hood	10/27/44 1:20 PM	0	0	0
W hood	10/27/44 1:15 PM	0	0	0
Room center	10/28/44 1:42 PM	3	$4.4 \times 10^{-13}$	$6.9 \times 10^{-12}$
Rm. 22 - SE hood	10/28/44 10:15 AM	12	$1.8 \times 10^{-12}$	$2.8 \times 10^{-11}$
Rm. 24 - Room center	10/28/44 12:42 PM	5	$7.3 \times 10^{-13}$	$1.1 \times 10^{-11}$
Rm. 33-35 - SE hood	10/25/44 10:25 AM	7	$1.0 \times 10^{-12}$	$1.7 \times 10^{-11}$
E hood	10/28/44 1:08 PM	3	$4.4 \times 10^{-13}$	$6.9 \times 10^{-12}$
Rm. 62 - NW hood	10/25/44 12:30 PM	0	0	0
Center hood	10/25/44 12:35 PM	0	0	0
Rm. 32 - SE hood	10/27/44 2:00 PM	9	$1.5 \times 10^{-12}$	$2.0 \times 10^{-11}$
Rm. 57 - W hood	10/27/44 1:40 PM	48	$4.4 \times 10^{-13}$	$6.9 \times 10^{-12}$
SW - Cell 5	10/24/44 1:40 PM	48	$7.0 \times 10^{-12}$	$1.1 \times 10^{-10}$
SW - Cells 4 & 5	10/25/44 9:45 AM	164	$2.4 \times 10^{-11}$	$3.8 \times 10^{-10}$
SW - Cell 4	10/25/44 1:18 PM	13	$1.9 \times 10^{-12}$	$3.0 \times 10^{-11}$
SW - Cell 4	10/27/44 12:40 PM	2	$7.5 \times 10^{-13}$	$1.1 \times 10^{-11}$
SW - Cell 5	10/27/44 12:45 PM	0	0	0
SW - Cell 6	10/28/44 12:35 PM	5	$7.5 \times 10^{-13}$	$1.1 \times 10^{-11}$
<u>BLPC 202</u>				
Rm. D - Front of barrier	10/23/44 1:10 PM	2	$2.9 \times 10^{-13}$	$4.5 \times 10^{-12}$
over D-8	10/24/44 7:51 PM	101	$1.5 \times 10^{-11}$	$2.3 \times 10^{-10}$
(during transfer)				<i>Clos to Jolene</i>
near D-11	10/24/44 7:51 PM	128	$1.9 \times 10^{-11}$	$2.9 \times 10^{-10}$
(during transfer)				<i>at</i>
near D-8	10/27/44 1:17 PM	5	$7.5 \times 10^{-13}$	$1.1 \times 10^{-11}$
near D-11	10/27/44 1:17 PM	3	$4.4 \times 10^{-13}$	$6.9 \times 10^{-12}$
Rm. C - Room center	10/23/44 3:05 PM	2	$2.9 \times 10^{-13}$	$4.5 \times 10^{-12}$
Rm. E - Center bench	10/23/44 2:30 PM	5	$4.4 \times 10^{-13}$	$6.9 \times 10^{-12}$